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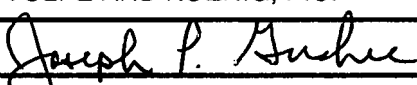
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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	Application Number	10/634,148
	Filing Date	August 4, 2003
	First Named Inventor	James A. Proctor, Jr.
	Art Unit	2618
	Examiner Name	Orgad, Edan
Total Number of Pages in This Submission		Attorney Docket Number TAN-2-1407.02.US

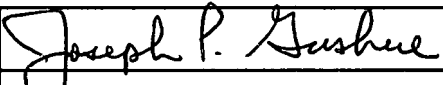
ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below): Form PTO-1449 ten (10) pages; Twenty-three (23) References cited.
<div style="border: 1px solid black; padding: 5px;">Remarks</div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	VOLPE AND KOENIG, P.C.		
Signature			
Printed name	Joseph P. Gushue		
Date	August 20, 2007	Reg. No.	59,819

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Joseph P. Gushue	Date	August 20, 2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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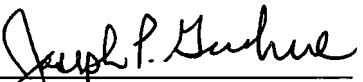
Applicant: James A. Proctor, Jr.
Application No.: 10/634,148

This Information Disclosure Statement is being filed with the fee required by 37 C.F.R. § 1.17(p).

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the Form PTO-1449 indicating his consideration of the cited materials.

Respectfully submitted,

James A. Proctor, Jr.

By 
Joseph P. Gushue
Registration No. 59,819
(215) 568-6400

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JPG/ci
Enclosures

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL

For FY 2006

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete if Known

Application Number	10/634,148
Filing Date	August 4, 2003
First Named Inventor	James A. Proctor, Jr.
Examiner Name	Orgad, Edan
Art Unit	2618
Attorney Docket No.	TAN-2-1407.02.US

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☒ Deposit Account Deposit Account Number: 09-0435 Deposit Account Name: InterDigital Communications Corporation

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

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FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims = x = **Fee Paid (\$)**

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims = x = **Fee Paid (\$)**

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50 =	(round up to a whole number) x	=	

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Supplemental Information Disclosure Statement

Fees Paid (\$)

\$180.00

SUBMITTED BY

Signature	Registration No. (Attorney/Agent) 59,819	Telephone 215-568-6400
Name (Print/Type) Joseph P. Gushue		Date

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In the **PATENT APPLICATION** of:

James A. Proctor, Jr.

Application No.: 10/634,148

Confirmation No.: 5101

Filed: August 4, 2003

For: FORWARD ERROR CORRECTION
SCHEME FOR HIGH RATE DATA
EXCHANGE IN A WIRELESS SYSTEM

Group: 2618

Examiner: Orgad, Edan

Our File: TAN-2-1407.02.US

Date: August 20, 2007

INFORMATION DISCLOSURE STATEMENT

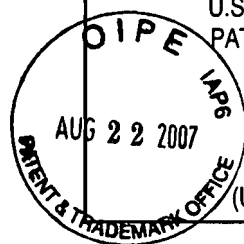
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Alexandria, VA 22313-1450

Sir:

Further to Applicant's Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicant wishes to bring to the Examiner's attention the material cited on the enclosed Form PTO-1449.

The listed references include references previously cited in this application.
Newly cited documents are indicated by an asterisk (*) on the enclosed Form PTO-1449. Copies of the newly cited documents are enclosed.

08/23/2007 AHMAD1 00000001 090435 10634148
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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.
TAN-2-1407.02.USSERIAL NO.
10/634,148APPLICANT
James A. Proctor Jr.FILING DATE
August 4, 2003GROUP
2618

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,460,992	07/17/84	Gutleber			
		4,625,308	11/25/86	Kim, et al.			
		4,862,453	08/29/89	West, et al.			
		4,866,709	09/12/89	West, et al.			
		5,027,348	6/25/91	Curry, et al.			
		5,103,459	04/07/92	Gilhousen, eta l.			
		5,115,309	05/19/92	Hang			
		5,373,502	12/13/94	Turban			
		5,394,473	02/28/95	Davidson			
		5,442,625	08/15/95	Gitlin et al.			
		5,487,072	01/23/96	Kant			
		5,559,788	09/24/96	Zscheile, Jr. et al.			
		5,559,790	09/24/96	Yano et al.			
		5,602,834	02/11/97	Dean et al.			
		5,606,574	02/25/97	Hasegawa, et al.			
		5,663,958	09/02/97	Ward			
		5,663,990	09/02/97	Bolgiano et al.			
		5,673,259	09/30/97	Quick, Jr.			
		5,699,364	12/16/97	Sato, et al.			
		5,699,369	12/16/97	Guha			
		5,734,646	03/31/98	I et al.			
		5,777,990	07/07/98	Zehavi, et al.			
		5,781,542	07/14/98	Tanaka, et al.			
		5,784,406	07/21/98	DeJaco et al.			
		5,790,551	08/04/98	Chan			

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<p>FORM PTO-1449</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	<p>ATTY. DOCKET NO. TAN-2-1407.02.US</p>	<p>SERIAL NO. 10/634,148</p>
	<p>APPLICANT James A. Proctor Jr.</p>	
	<p>FILING DATE August 4, 2003</p>	<p>GROUP 2618</p>

		5,805,567	09/08/98	Ramesh			
		5,825,807	10/20/98	Kumar			
		5,828,659	10/27/98	Teder et al.			
		5,828,662	10/27/98	Jalali et al.			
		5,844,894	12/01/98	Dent			
		5,856,971	01/05/99	Gitlin et al.			
		5,859,840	01/12/99	Tiedemann, Jr. et al.			
		5,910,945	06/08/99	Garrison et al.			
		5,914,950	06/22/99	Tiedemann, Jr. et al.			
		5,917,852	06/29/99	Butterfield et al.			
		5,923,650	07/13/99	Chen et al.			
		5,930,230	07/27/99	Odenwalder, et al.			
		5,950,131	09/07/99	Vilmur			
		5,991,279	11/23/99	Haugli et al.			
		6,005,855	12/21/99	Zehavi et al.			
		6,028,868	02/22/00	Yeung et al.			
		6,064,678	05/16/00	Sindhushayana et al.			
		6,069,883	05/30/00	Ejzak et al.			
		6,078,572	06/20/00	Tanno et al.			
		6,104,708	08/15/00	Bergamo			
		6,088,335	07/11/00	I et al.			
		6,112,092	08/29/00	Benveniste			
		6,134,233	10/17/00	Kay			
		6,157,619	12/05/00	Ozluturk et al.			
		6,161,013	12/12/00	Anderson et al.			
		6,196,362	02/27/01	Darcie et al.			
		6,208,871	03/27/01	Hall et al.			
		6,215,798	04/10/01	Carneheim et al.			
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	APPLICANT James A. Proctor Jr.	
	FILING DATE August 4, 2003	GROUP 2618

		6,222,828	04/24/01	Ohlson et al.			
		6,243,372	06/05/01	Petch et al.			
		6,259,683	07/10/01	Sekine et al.			
		6,262,980	07/17/01	Leung et al.			
		6,269,088	07/31/01	Masui et al.			
		6,272,168	08/07/01	Lomp et al.			
		6,285,665	09/04/01	Chuah			
		6,307,840	10/23/01	Wheatley, III et al.			
		6,366,570	04/02/02	Bhagalia			
		6,373,830	04/16/02	Ozluturk			
		6,373,834	04/16/02	Lundh et al.			
		6,377,548	04/23/02	Chuah			
		6,377,809	04/23/02	Rezaiifar et al.			
		6,389,000	05/14/02	Jou			
		6,396,804	05/28/02	Odenwalder			
		6,418,148	07/09/02	Kumar et al.			
		6,456,608	09/24/02	Lomp			
		6,469,991	10/22/02	Chuah			
		6,473,623	10/29/02	Benveniste			
		6,504,830	01/07/03	Östberg et al.			
		6,519,651	02/11/03	Dillion			
		6,526,039	02/25/03	Dahlman et al.			
		6,532,365	03/11/03	Anderson et al.			
		6,545,986	04/08/03	Stellakis			
		6,567,416	05/20/03	Chuah			
		6,570,865	05/27/03	Masui et al.			
		6,571,296	05/27/03	Dillion			
		6,574,211	06/03/03	Padovani et al.			
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	FILING DATE August 4, 2003	GROUP 2618

		6,597,913	07/22/03	Natarajan			
		6,614,776	09/02/03	Proctor			
		6,885,652	04/26/05	Ozukturk et al.			
		6,940,840	09/06/05	Ozluturk et al.			
		6,973,601	12/06/05	Sabet et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		0443061	02/21/90	EP			X	
		0635949	07/18/94	EP			X	
		0827312	08/07/97	EP				
		2266389	04/02/74	FR			X	
		2761557	03/28/97	FR			X	
		95/08900	03/30/95	WO				
		96/13914	05/06/96	WO				
		98/43373	10/01/98	WO			X	
		98/59447	12/30/98	WO				
		99/14878	03/25/99	WO				
		99/39472	08/05/99	WO				
		99/44341	09/02/99	WO				
		00/52831	09/08/00	WO				
		00/65764	11/02/00	WO				

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	<p>APPLICANT James A. Proctor Jr.</p>	
	<p>FILING DATE August 4, 2003</p>	<p>GROUP 2618</p>

OTHER DOCUMENTS		
EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
		Chih-Lin I et al., Multi-Code CDMA Wireless Personal Communications Networks, June 18, 2005
		Chih-Lin I et al., IS-95 Enhancements for Multimedia Services, Bell Labs Technical Journal, Pages 60-87, Autumn 1996
		Chih-Lin I et al., Performance of Multi-Code CDMA Wireless Personal Communications Networks, July 25, 1995
		Liu et al., Channel Access and Interference Issues in Multi-Code DS-CDMA Wireless Packet (ATM) Networks, Wireless Networks 2, Pages 173-196, 1996
		Chih-Lin I et al., Load and Interference Based Demand Assignment (LIDA) for Integrated Services in CDMA Wireless Systems, November 18, 1996, Pages 235-241
		Budka et al., Cellular Digital Packet Data Networks, Bell Labs Technical Journal, Summer 1997, Pages 164-181
		Cellular Digital Packet Data, System Specification, Release 1.1 January 19, 1995
		Data Standard, Packet Data Section, PN-3676.5 (to be published as TIA/EIA/IS-DATA.5), December 8, 1996, Version 02 (Content Revision 03)
		Data Service Options for Wideband Spread Spectrum Systems: Introduction, PN-3676. 1 (to be published as TIA/EIA/IS-707.1), March 20, 1997 (Content Revision 1).
		Packet Data service Option Standard for Wideband Spread Spectrum Systems, TIA/EIA Interim Standard, TIA/EIA/IS-657, July 1996
		Mobile Station -Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System, TIA Interim Standard, TIA/EIA/IS-95-A (Addendum to TIA/EIA/IS-95), May 1995

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		Mobile Station-Base Station Compatibility Standard for Wideband Spread Spectrum Cellular Systems, TIA/EIA Standard, TIA/EIA-95-B (Upgrade and Revision of TIA/EIA-95-A), March 1999
		Network Wireless Systems Offer Business unit (NWS OBU), Feature Definition Document for Code Division Multiple Access (CDMA) Packet Mode Data Services, FDD-1444, November 26, 1996
		Draft Text for "95C" Physical Layer. (Revision 4), Part 2, Document #531-981-20814-95C, part 2 on 3GPP2 website (ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-9812014-95c,%20part5202.pdf , 1998)
		Draft Text for "95C" Physical Layer. (Revision 4), Part 1, Document #531-981-20814-95C, part 1 on 3GPP2 website (ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-9812014-95c,%20part5202.pdf , 1998)
		Reed et al., Iterative Multiuser Detection for CDMA with FEC: Near-Single-User Performance, IEEE Transactions on Communications, Vol. 46, No. 12, December 1998, Pages 1693-1699
		Hindelang et al., Using Powerful "Turbo" Codes for 14.4 Kbit/s Data Service in GSM or PCS Systems, IEEE Global Communications Conference, Phoenix, Arizona, USA November 3-8, 1997 Vol. 11, Pages 649-653
		Kaiser et al., Multi-Carrier CDMA with Iterative Decoding and Soft-Interference Cancellation, Proceedings of Globecom 1997, Vol.1, Pages 523-529
		Wang et al., The Performance of Turbo-Codes in Asynchronous DS-SS-SSMA, IEEE Global Communications Conference, Phoenix, Arizona, USA, November 3-8, 1997, Vol. III, Pages 1548-1551
		Hall et al., Design and Analysis of Turbo Codes of Rayleigh Fading Channels, IEEE Journal on Selected Areas in Communications, Vol. 16, No. 2, February 1998, Pages 160-174
		High Data Rate (HDR) Solution, Qualcomm, December 1998
		Azad et al., Multirate Spread Spectrum Direct Sequence CDMA Techniques, 1994, The Institute of Electrical Engineers
		Ejzak et al., Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, Revision 0.1, May 5, 1997
		Knisely, Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, January 16, 1997

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		Kumar et al., An Access Scheme for High Speed Packet Data Service on IS-95 based CDMA, February 11, 1997
		Ejzak et al., Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, April 14, 1997
		Lucent Technologies Presentation First Slide Titled, Summary of Multi-Channel Signaling Protocol, April 6, 1997
		Lucent Technologies Presentation First Slide Titled, Why Support Symmetric HSD (Phase 1C), February 21, 1997
		Kryzmien et al., Rapid Acquisition Algorithms for Synchronization of Bursty Transmissions in CDMA Microcellular and Personal Wireless Systems, IEEE Journal on Selected Areas in Communications, Vol. 14, No. 3, April 1996, Pages 570-579
		Chih-Lin I et al., Variable Spreading Gain CDMA with Adaptive Control for True Packet Switching Wireless Network, 1995, Pages 725-730
		Skinner et al., Performance of Reverse-Link Packet Transmission in Mobile Cellular CDMA Networks, IEEE, 2001, Pages 1019-1023
		Lau et al., A Channel-State-Dependent Bandwidth Allocation scheme for Integrated Isochronous and Bursty Media Data in a Cellular Mobile Information System, IEEE, 2000, Pages 524-528
		Elhakeem, Congestion Control in Signaling Free Hybrid ATM/CDMA Satellite Network, IEEE, 1995, Pages 783-787
		Chung, Packet Synchronization and Identification for Incremental Redundancy Transmission in FH-CDMA Systems, 1992, IEEE, Pages 292-295
		High Data Rate (HDR), cdmaOne optimized for high speed, high capacity data, Wireless Infrastructure, Qualcomm, September 1998
		Viterbi, The Path to Next Generation Services with CDMA Qualcomm Incorporated, 1998 CDMA Americas Congress, Los Angeles, California, November 19, 1998
		TS-25.211 V2.0. (1999-04) 3GPP, TSG, RAN, WG1 Physical channels and mapping of transport channels onto physical...

EXAMINER	DATE CONSIDERED
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	APPLICANT James A. Proctor Jr.	
	FILING DATE August 4, 2003	GROUP 2618

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		TS 25.213 V2-0.0 (1999-4) 3GPP, TSG, RAN, WG1 Spreading and modulation. (FDD)
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